PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or a 5885-WO	agent's file reference	FOR FURTHER ACTION		ation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International ap	oplication No.	International filing date (day/month	/year)	Priority date (day/month/year)
PCT/DK00/	00300	02/06/2000		02/06/199 RECEIVED
C12N9/20	atent Classification (IPC) or na	tional classification and IPC		MAY 0 8 2003
Applicant NOVOZYMI	ES A/S et al.			TECH CENTER 1600 2900
	rnational preliminary exam ansmitted to the applicant a		by this Inte	rnational Preliminary Examining Authority
2. This REF	PORT consists of a total of	6 sheets, including this cover sh	neet.	
beer (see	amended and are the bas	sis for this report and/or sheets on the Administrative Instruction	ontaining re	n, claims and/or drawings which have ctifications made before this Authority ne PCT).
3. This repo	ort contains indications rela	ting to the following items:		
1 [Basis of the report			
11 0	Priority			
111 [Non-establishment of o	pinion with regard to novelty, inv	entive step	and industrial applicability
IV [\mathbb{E} Lack of unity of invention	on		
V [nder Article 35(2) with regard to rons suporting such statement	novelty, inve	entive step or industrial applicability;
VI [Certain documents cite	ed		
VII [Certain defects in the in 	nternational application		
VIII E	Certain observations or	n the international application		
Date of submis	sion of the demand	Date of c	completion of	this report

Date of submission of the demand

27/11/2000

Date of completion of this report

23.11.2001

Name and mailing address of the international preliminary examining authority:

Authorized officer



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/DK00/00300

			•	
l.	Ва	asis of the report		
1	an	e receiving Office in	ments of the international application (Replacement sheets which have been furnished response to an invitation under Article 14 are referred to in this report as "originally file to this report since they do not contain amendments (Rules 70.16 and 70.17)):	d to l
	1-1	13	as originally filed	
	Cla	aims, No.:		
	1-1	17	as originally filed	
2.	lan	th regard to the lang guage in which the i	luage, all the elements marked above were available or furnished to this Authority in the national application was filed, unless otherwise indicated under this item.	ıе
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:	
		the language of a	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).	
			blication of the international application (under Rule 48.3(b)).	
		the language of a f 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under F	Rule
3.	Wit inte	h regard to any nuc ernational preliminan	leotide and/or amino acid sequence disclosed in the international application, the yexamination was carried out on the basis of the sequence listing:	
		contained in the int	ernational application in written form.	
			he international application in computer readable form.	
			ently to this Authority in written form.	
		furnished subseque	ently to this Authority in computer readable form.	
		The statement that the international ap	the subsequently furnished written sequence listing does not go beyond the disclosur plication as filed has been furnished.	e in
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequenc nished.	e
4.	The	amendments have	resulted in the cancellation of:	
	\equiv	the description,	pages:	(
	\Box	the claims,	Nos.:	4
		the drawings,	sheets:	•
5.		This report has bee considered to go be	n established as if (some of) the amendments had not been made, since they have be eyond the disclosure as filed (Rule 70.2(c)):	een

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(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6.	Additional observations, if necessary:						
		ck of unity of invention					
1. In response to the invitation to restrict or pay additional fees the applicant has:							
		restricted the claims.					
		paid additional fees.					
		paid additional fees und	der prote	est.			
		neither restricted nor pa	aid addit	tional fees	es.		
2.	Ø	This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.					
3.	3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3						
		complied with.					
	Ø	not complied with for the see separate sheet	e follow	ing reaso	ons:		
4.	 Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report: 						
	M	all parts.					
		the parts relating to clair	ms Nos				
٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Nov	relty (N)	Yes: No:	Claims Claims			
	Inve	entive step (IS)	Yes: No:	Claims Claims			
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims			

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2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item IV

Lack of unity of invention see explanation under item V.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The modification of lipolytic enzymes by linking one or more hydrophobic groups to said enzyme is disclosed in several of the prior art documents cited in the search report (all documents categorized x cited in the search report e.g Proceedings of the 20th European Peptide Symposium, 4-9 September 1998, meeting date 1988, 667-9, VAN BINSBERGEN JAN et al., Editors GUENTHER JUNG, ERNST BAYER, 'Peptides 1988', pages 667-668. XP002931955. D2: 'Transesterification of oil by fatty acid-modified lipase', 'MOTOTAKE MURAKAMI ET AL.','JAOCS',",70/6/00-00-1993,571-574).

Therefore none of the generally drafted claims fulfils the requirements of Articles 33.2 PCT.

Should the applicant intend to file an amended set of claims which shall be suitable to overcome the objections above, the following additional considerations should be taken into account:

Especially in view of the prior art, a meaningful identification of the contribution over said art must be accompanied by a clear characterisation of the parent enzyme and the kind of modification. In the absence of precisely characterising said enzyme especially definitions as can be found in e.g. claim 2 are totally meaningless (Article 6 PCT).

In addition, the maintenance of various alternatives (either in one claim or in several independent claims) will most probably give rise to objections for lack of unity (again in view of the prior art) (Rules 13.1-13.3 PCT).

Moreover, any "modified lipolytic enzyme" to be maintained in the claims should be accompanied by experimental results in order to substantiate a possible inventive activity.

Re Item VIII

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/DK00/00300 .

Certain observations on the international application see explanation under item V.